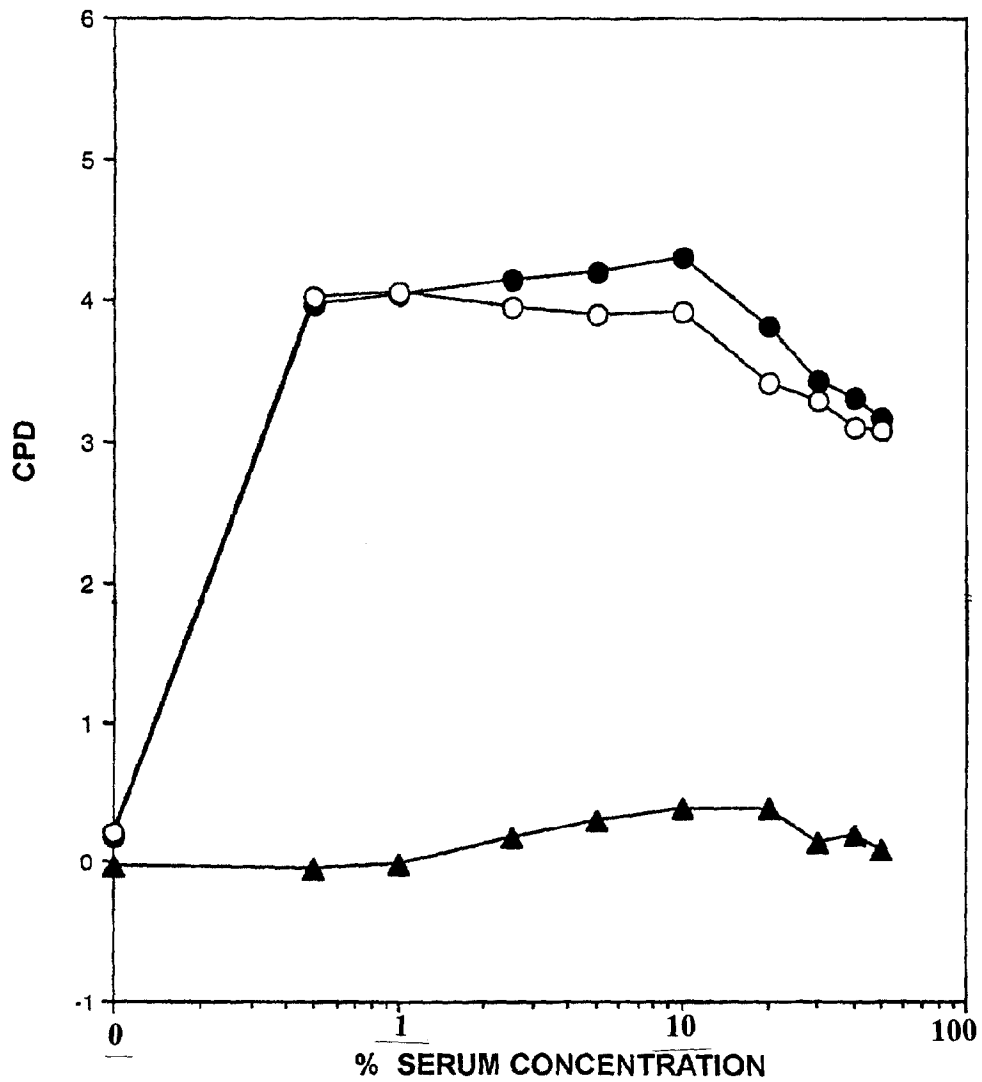


FIGURE 55

CDE HORSE SERUM TITRATION ON ALVA-41 CELLS

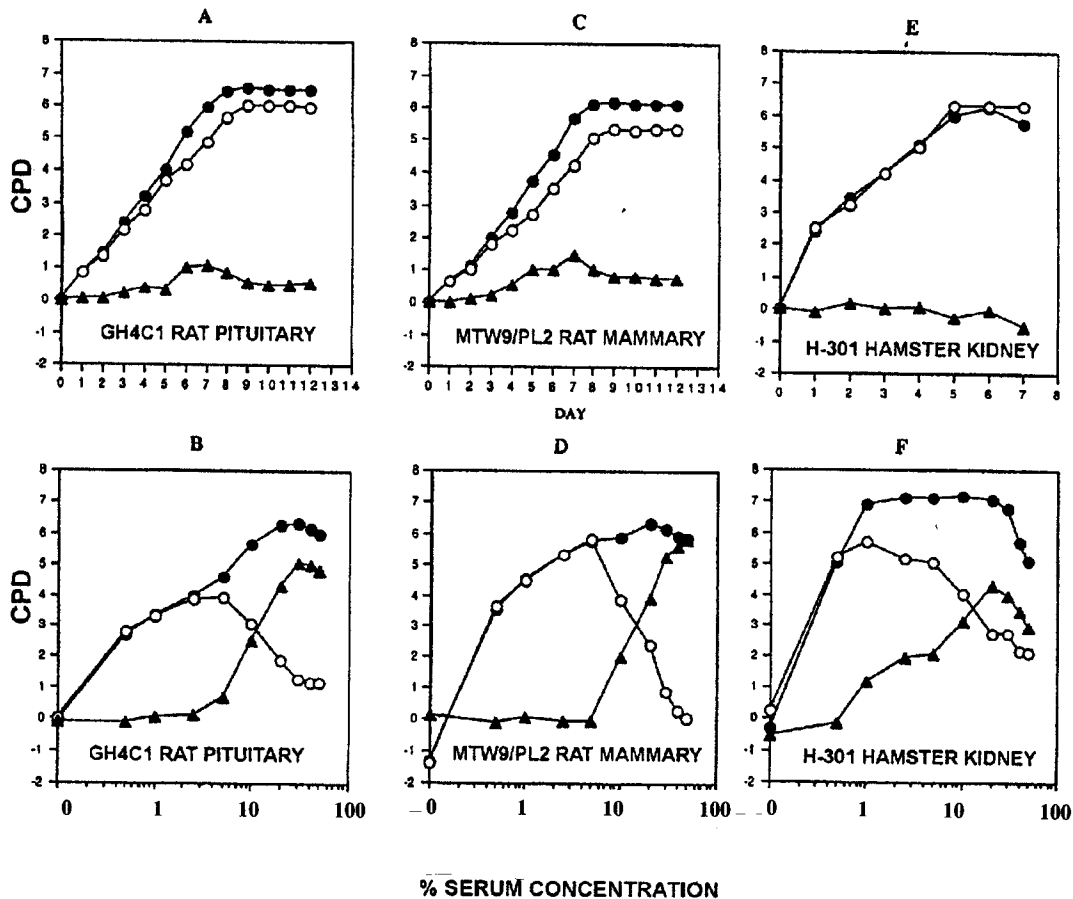


LEGEND:

- = + 10 nM DHT
- = STEROID FREE
- ▲— = ANDROGENIC EFFECT

FIGURE 57

EFFECTS OF ESTROGEN ON STEROID HORMONE-RESPONSIVE RODENT TUMOR CELL GROWTH

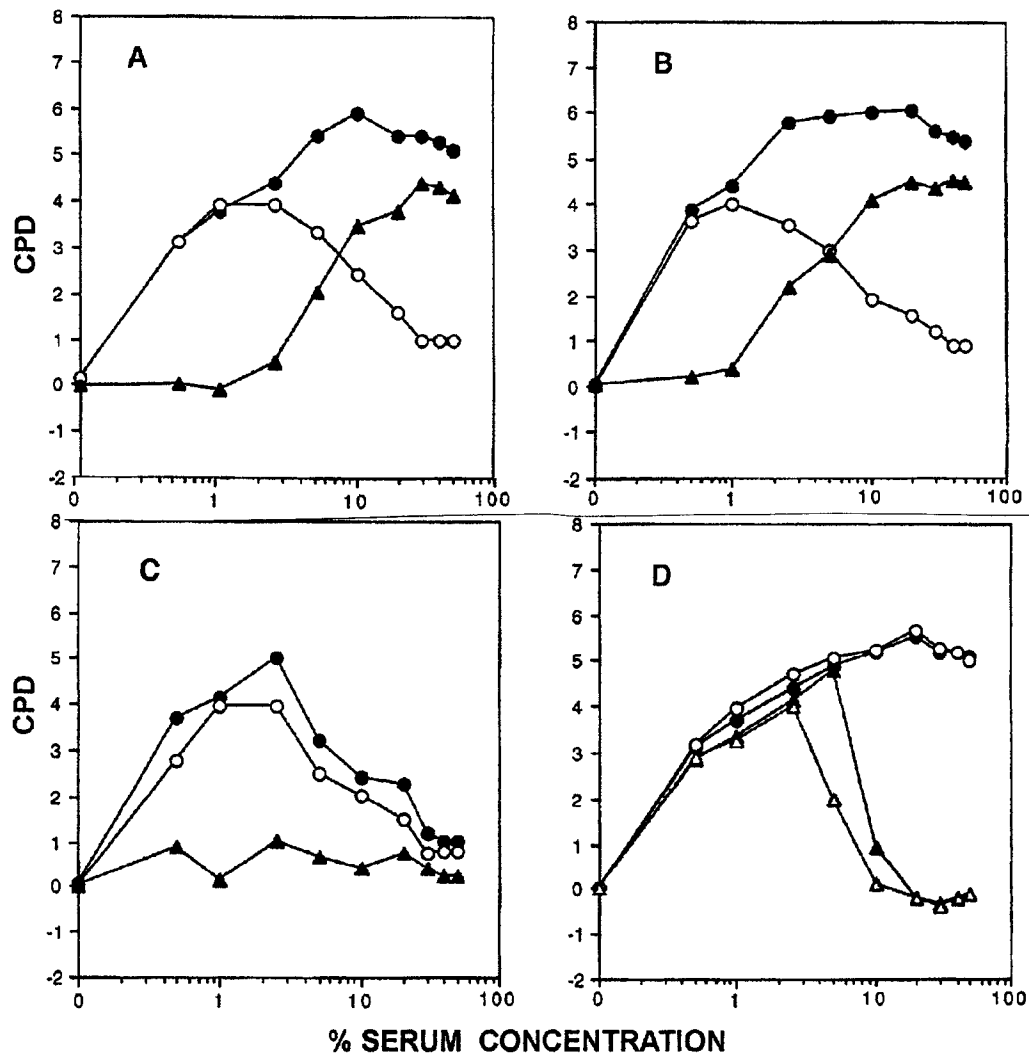


Comparison of the effects of estrogen on steroid hormone-responsive rodent tumor cell growth in serum-free defined medium and in D-MEM/F-12 supplemented with increasing concentrations of CDE horse serum.

(A) GH₄C₁ rat pituitary tumor cell growth measured daily in serum-free PCM-9 with E_2 (closed circles) and without E_2 (open circles). The estrogenic effect is shown by triangles.
 (B) GH₄C₁ cell growth measured after 9 d in D-MEM-F-12 supplemented with the designated concentrations of CDE horse serum with E_2 (closed circles) and without E_2 (open circles). The estrogenic effect is shown by triangles.
 (C) and (D) show the same experiments as in (A) and (B) respectively, but with the MTW9/PL2 rat mammary tumor cells. The serum-free medium in (D) was DDM-2A.
 (E) and (F) show the same experiments as in (A) and (B), respectively, except with the H-301 hamster kidney tumor cells. In (E) the serum-free medium was CAPM.

FIGURE 59

THE EFFECT OF DHT, E₂, AND DES ON
LNCaP CELLS GROWN IN CDE HORSE SERUM



LEGEND:

- (A) Open circles = - DHT
 Closed circles = + DHT
 Closed triangles = Androgenic effect
- (B) Open circles = - E₂
 Closed circles = + E₂
 Closed triangles = Estrogenic effect

- (C) Open circles = - DES
 Closed circles = + DES
 Closed triangles = Estrogenic effect
- (D) Open circles = DHT & DES
 Closed circles = E₂ & DES
 Open triangles = No additions
 Closed triangles = DES only